



# Forest Insect & Disease Management

Report No. 80-3-32

Issued on: 7-23-80

AERIAL DETECTION SURVEY OF FOREST  
INSECT AND DISEASE ACTIVITY, CROATAN  
NATIONAL FOREST, NORTH CAROLINA

LAND OWNERSHIP OR SURVEY AREA: Croatan National Forest

STATE: North Carolina

AREA WITHIN SURVEY BOUNDARY: 308,226

DATE: July 14, 1980

PERCENT COVERAGE: 100%

AIRCRAFT: Cessna 210

CREW: E.T. Wilson, T. Russell

REPORT PREPARED BY: E.T. Wilson, T. Landgraf

## SURVEY OBJECTIVES

To detect the presence of forest insect or diseases adversely affecting the timber resources in the survey area.

## SURVEY RESULTS

A total of 78 spots containing 1,549 dead and dying trees were detected. The pine mortality on the Croatan National Forest is suspected to be caused by the southern pine beetle. The attached map indicates the approximate size and location of suspected southern pine beetle infestations.

## CONCLUSIONS

The occurrence of suspected southern pine beetle infestations on the Croatan National Forest has greatly increased since the May 12, 1980 aerial detection survey was flown. A ground check will be conducted by personnel from the Asheville Field Office to verify the causal agent and to evaluate the severity of the outbreak.

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**SOUTHEASTERN AREA, STATE & PRIVATE FORESTRY  
USDA FOREST SERVICE, ATLANTA, GA 30309**

Table I: Summary of Aerial Survey Data, Croatan National Forest, North Carolina, 7-14-80

Ownership	Infestation Size (# Trees)										
	1		2-5		6-20		21-50		51-100		100+
	Spots:Trees		Spots:Trees		Spots:Trees		Spots:Trees		Spots:Trees		
Federal	1	1	23	106	15	178	19	700	4	335	0
Private	3	3	6	28	4	43	2	80	1	75	0

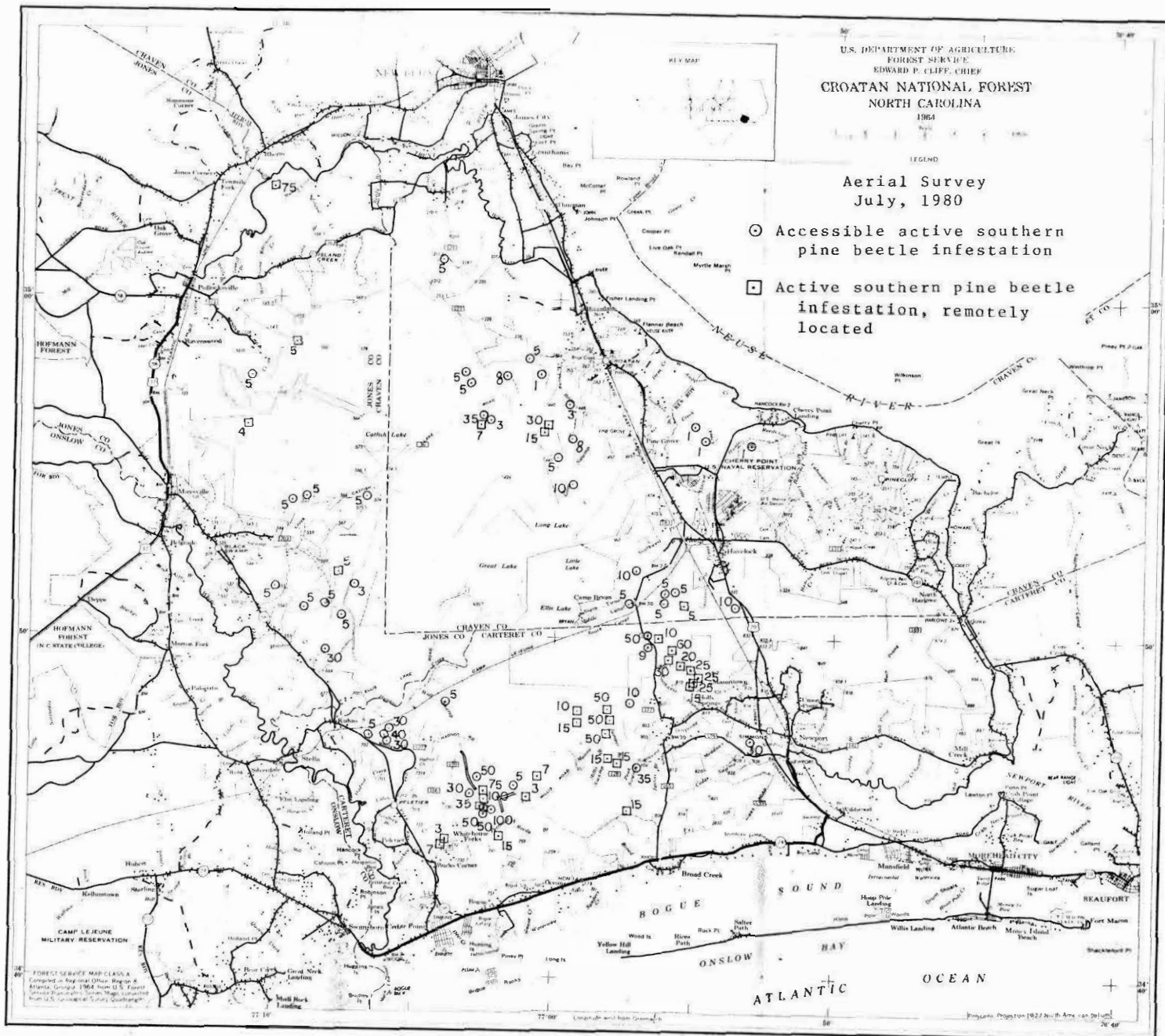


FIGURE 1. Location of southern Pine beetle infestations on the Croatan National Forest, July 1980.